# Khaoula ALLAK

Data Scientist | Big Data and Cloud Computing Engineering

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 Khaoula ALLAK

**Enthusiastic about machine learning, generative AI, NLP, and LLMs, with hands-on experience in building AI-driven solutions. Skilled in data analysis, model training, and creating customized conversational chatbots for data-driven problem-solving. Eager to bring my expertise into real-world applications and contribute to impactful projects. I am available for a PFE internship starting in January 2025 and excited to further develop my skills in a dynamic, innovative environment.**

## EDUCATION

•**ENSET Mohammedia** — *Expected Graduation Summer of 2025*
*Engineering degree (Big Data & Cloud Computing)*

•**AL Khansaa** — *Sep 2020 - Aug 2022*
*Preparatory classes (MP)*

## EXPERIENCES

•**UM6P** — *Jul–Sept 2024*
*Machine Learning Engineer (Internship)* — Ben Guerir,Marrakesh-Safi
 – Developed a cutting-edge solution using NLP, real-time AI processing, machine learning, and computer vision to assist football coaches in making real-time predictions about player performance. The system collects data from sensors placed on players, providing instantaneous feedback on their status enabling coaches to make informed decisions during games.

•**Ninwid Technologies** — *Jul–Aug 2023*
*Full Stack Engineer (Internship)* — Casablanca
 – Designed and developed a website to transform customer management and automate announcements. Simplified client management by automating key tasks for efficiency.

## PERSONAL PROJECTS

•**FootInsights** — *2024*
*Data-Driven decisions in real time for coaches*

 – Tools & technologies used: LangChain, OpenAI , Django, React, MongoDB, OpenCV,Yolov8 ,Ultralytics
 – This platform leverages machine learning to analyze vast player datasets.It utilizes computer vision for player tracking and NLP to extract insights from unstructured data. It employs scalable cloud-based architectures for efficient data storage and processing, enabling real-time analytics and performance monitoring.

•**MedGPT** — *2022*
*Customized Chatbot for healthcare professionals*

 – Tools & technologies used: Django, TensorFlow, Keras, PyTorch , PostgreSQL
 – MedGPt is specifically trained to provide recommendations related to heartbeat, revolutionizing healthcare by centralizing medical data focused on heart health. It enables instant access to information for informed decision-making and facilitates precise and rapid diagnostics.

## TECHNICAL SKILLS

**Languages**: c, c++, javascript, java, python
**Design**: css, bootstrap, tailwind css, figma, LaTeX
**Frameworks**: React, Angular, Spring Boot, Express js, Node js, Laravel, Django , Spring Cloud
**Cloud/Databases**: Mysql, Mongodb, Cassandra , Kibana, Elastic Search , Redis,
**Soft Skills**: Problem Solving, Teamwork, Leadership, Communication
**Big data technologies**: Apache Spark, Hadoop, Apache Aiflow, Docker , Kubernetes , Kafka Streams

## POSITIONS OF RESPONSIBILITY

•**President** :Google Developers Student Club ENSET Mohammedia — *2023-2024*

•**Core Team member** :GDSC - N7 Geeks Aggregation — *2022-2023*

## CERTIFICATIONS

- Foundations:Data ,Data Everywhere                                    *Nov 2022*
- Modernizing Data Lakes and Data Warehouses with GCP                  *Jun 2022*
- Oracle Cloud Infrastructure Generative AI Professional               *Jun 2022*
- Introduction to MongoDB                                              *Jun 2022*
- English for IT 1                                                     *Dec, 2023*

## ACHIEVEMENTS

- Secured second place at the Healthtech Hackathon held at Ibn Zohr University in Agadir.   *April 26, 2024*
- Semi-finalist English public speaking                                *May 08,2024*
- Semi-finalist in Frensh public speaking                              *May 08,2023*
- Certificate of Leadership and Completion for serving as a Google Developer Student Club   *2023-2024*

## LANGUAGES

- Arabic - French - English